

CLAIMS AMENDMENTS

Claim 1 (currently amended) A method of metered delivery of an insecticidal liquid comprising the following steps:

communicating insecticidal liquid from the reservoir of a bubble-jet liquid emanator device into a capillary tube portion thereof;

controlling the temperature of vaporization of the insecticidal liquid at a temperature at least 30°C below the decomposition temperature of the insecticide therein;

vaporizing a portion of the liquid within the capillary tube portion; and

ejecting small droplets of the liquid from the bubble-jet liquid emanator device, the droplets having a volume medium diameter of between about 1 µm and about 7 µm; and

imparting the droplets of insecticidal liquid with a static charge.

Claim 2 (canceled)

Claim 3 (canceled)

Claim 4 (previously presented) The method of Claim 1 further comprising the step of dissolving a suitable gas in the insecticidal liquid prior to vaporization thereof.

Claim 5 (canceled)

Claim 6 (currently amended) The method of Claim ~~5~~ 1 further comprising the step of controlling the static charge at about -1×10^4 C/kg.

AMENDMENT AND RESPONSE TO INTERVIEW SUMMARY 06/08/2006

Date Filed: May 30, 2001

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Title: :LIQUID EMANATOR DEVICE TO DELIVER
SELF-SUSPENDING INSECTICIDE DROPLETS

Serial No.: 09/870,117

Attorney Docket No.: CLX-602 (470.136A)

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Claim 7 (canceled)

Claim 8 (canceled)

Claim 9 (canceled)

Claim 10 (currently amended) The method of Claim-8- 1 in which the step of controllably vaporizing the volume of insecticidal liquid comprises activating an electronic circuit containing a resistive heating element coupled to the capillary tube portion to cause an essentially instantaneous, temporary increase in temperature of the capillary tube portion.

Claim 11-21 (cancelled)

Claim 22 (currently amended) The method of Claim-4- 1 in which the gas is selected from one or more of the following hydrogen, nitrogen, oxygen, air, helium, neon, argon, krypton, xenon, methane, ethane, ethylene, acetylene, N₂, CO₂, and O₂.

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